

MAP04

MODELING AIRPORT OPERATIONAL CAPACITY FOR EMERGENCY EVACUATIONS

Robert Gibson, Kunpeng Li, Seong-jong Joo, Adam Reiman
Air Force Institute of Technology, WPAFB, OH, USA

Abstract

Airports play a crucial role in emergency evacuations, whether in response to natural disasters or military operations. In such situations, demand for airport services spikes within a short timeframe, making evacuation planning challenging due to the physical and operational constraints of airports. Our research builds analytical queueing models to assess airport operational capacity during emergency evacuations, and provides valuable insights into managing sudden, high-demand situations efficiently under time constraints.

Conference Track

Military Applications